



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
PO040033	ACI001-VC	1	1	Net 30	M17-4-R0.750	17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft				36	6/15/2018	36		S080894	Stock	6/13/2018	\$ 10.96 / ft
		2			M304R .500	304 SS roundbar .500 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				120		128		S080895	Stock	6/13/2018	\$ 2.33 / ft
		3			M6061T6S1.250X6.000	6061T6 PLATE 1.250 X 6.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft				12		12		S080896 S080940 2x6'	Stock	6/13/2018	\$ 35.68 / ft
		4			M6061T6B0.250X4.500	M2024T3B0.250X4.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20		S080897	Stock	6/13/2018	\$ 4.28 / ft
		5			M6061T6B0.625X03.000	6061T6 Bar 0.625 X 3.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S080898	Stock	6/13/2018	\$ 11.87 / ft
		6			M6061T6B0.750X00.750	6061-T6 Bar .750 X .750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20		S080899	Stock	6/13/2018	\$ 2.41 / ft
		7			M6061T6S1.750X10.000	6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft				6		6		S080900	Stock	6/13/2018	\$ 94.82 / ft
		8			M6061T6B4.500X4.500	6061-T6 Aluminumbar 4.500" X 4.500" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				4		4		S080901	Stock	6/13/2018	\$ 128.02 / ft

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
		9			M304B0.375X03.000	M304 SS bar .375 x 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12		12		S080902	Stock	6/13/2018	\$ 13.02 / ft
		10			M304B1.000X1.000	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft						12		S080903	Stock	6/13/2018	\$ 18.90 / ft
		11			M1018B1.250X02.250	1010-1025 Steel Bar 1.250 X 2.250 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12		S080904	Stock	6/13/2018	\$ 15.87 / ft
		12			MT-4140-S- 1.750X12.000	AISI 4140 Steel Sheet/Plate				6		6		S080905	Stock	6/13/2018	\$ 225.10 / ft
Total:										272		274					



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy

CO00093012

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CLI0001056

Date

2018/06/04

Delivery date

2018/06/13

Your order N°

40033

Processed by

Eric Kaehlert

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only					
				CMD	EXP	B/O	IN	I	S	C	OUT	
1 ROUND SS 3/4 17-4PH NS RSS-34174 9268 3 X 12' R/L ** CERTIFICATE ** LINE# 1 AC16977-TH-2018-06-11 Heat : 752410	54.07	36.00	PL \$CLB		3X 12'1"		36'				JUN 13 2018 DAS 11 9-89	
2 ROUND SS 1/2 304 (R) RSS-12 5730 10 X 12' R/L ** CERTIFICATE ** LINE# 2 Heat : 1712154	80.04	120.00	PL \$CLB		3X 13'2" 3X 13'3" 3X 13'1" 1X 12'		127.8'				JUN 13 2018 DAS 11 9-89	

NIR : R-109516-6

Next Page...



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ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
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Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CL10001056

Date

2018/06/04

Delivery date

2018/06/13

Your order N°

40033

Processed by

Eric Kaehlert

Salesman

OUELLETTE VALLEYFIELD

Carrier

Credit Terme

Net 30 Days

Page

2

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
Heat : 627D											
3 ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453	107.76	6.00	PI2_\$CLB								
** CERTIFICATE ** SAW CUT SCIE 1		2.00	UN		2x 6"x 7"		12'				
2 PCS 6" X 72" HT# LINE# 3											
** Transit St-Jerome 07-06 ** Heat : S37116567											

JUN 13 2018
DAS
11
9-89

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT**Copy**

C000093012

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Instruction F-M**Delivery Route 5****Page 3**

Customer N° CLI0001056
Date 2018/06/04
Delivery date 2018/06/13
Your order N° 40033

Processed by Eric Kaehlert
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
4 FLAT ALU 1/4 X 4 6061-T6 * FAL-144 2525 1 X 20' ** CERTIFICATE ** LINE# 4 Heat : SKF172102	23.52	20.00	PI_\$CLB		1x 20'		20'			DAS 11 9-89	JUN 13 2018
5 FLAT ALU 5/8 X 3 6061-T6 * FAL-583 2633 1 X 12' ** CERTIFICATE ** LINE# 5 AC16977-TH-2018-06-11 Heat : 001J180501D	26.44	12.00	PI_\$CLB		1x 12'		12'			DAS 11 9-89	JUN 13 2018

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

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Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Customer N°	CL10001056
Date	2018/06/04
Delivery date	2018/06/13
Your order N°	40033
Processed by	Eric Kaehlert
Salesman	OUELLETTE VALLEYFIELD
Carrier	Net 30 Days
Credit Terme	4
Page	4

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
						CMD	EXP	B/O	IN	I	S	C	OUT
6		SQUARE ALU 3/4 6061-T6 * CAL-34 1787 1 X 20' ** CERTIFICATE ** LINE# 6 Heat : 68402	13.24	20.00	PL_\$CLB		1x 20'		20'				JUN 13 2018 DAS 11 9-89
7		ALU PLATE 1 3/4 6061-T651 RANDOM PAL-1346061-V 7458 ** CERTIFICATE ** SAW CUT SCIE 1 1 X 10" X 72" LINE# 7	125.35	5.00	PI2_\$CLB		1x 10" X 72"		6'				JUN 13 2018 DAS 11 9-89

NIR : R-109516-6

Next Page...



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ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to
DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to
, Ontario,
Att : CHANTAL LAVOIE T l.: 613-632-5200
Delivery Route 5

Instruction F-M

Customer N  CL10001056
Date 2018/06/04
Delivery date **2018/06/13**
Your order N  40033
Processed by Eric Kaehlert
Salesman OUELLETTE VALLEYFIELD
Carrier Net 30 Days
Credit Terme 5
Page 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
8 ALU PLATE 4 1/2 6061-T651 RANDOM PAL-4126061-V 7485 1 PC 4-1/2" X 48" ** CERTIFICATE ** LINE# 8 AC169777-TH-2018-06-11 Heat : 001J180303C Heat : 001J180303K	96.63	1.50	PI2_\$CLB		1 X 4 1/2" X 48"		41		DAS 11 9-49		JUN 13 2018
9 FLAT SS 3/8 X 3 SS304 (R) FSS-383 3578 1 X 12' R/L ** CERTIFICATE **	45.96	12.00	PL_\$CLB		1 X 12'	12			DAS 11 9-89		JUN 13 2018

NIR : R-109516-6



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Salaberry de Valleyfield (Québec) J6S 5L1
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DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056
Date 2018/06/04
Delivery date 2018/06/13
Your order N° 40033
Processed by Eric Kaehlert
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 6

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
10 <i>LINE# 9</i> <i>Heat : 397J</i> SQUARE SS 1 SS304 (R) CSS-1 2085 1 X 12' R/L ** CERTIFICATE ** <i>LINE# #10</i> <i>Heat : 56171822</i>	40.80	12.00	PL_\$CLB		1 X 12' 10"		12'		JUN 13 2018	DAS 11 9-88	
11 PLATE 4140 HEAT TREAT 1 3/4 NS P4140-134H 8507 1 X 12" X 72" ** CERTIFICATE ** <i>LINE# 12</i>	428.82	6.00	PI2_\$CLB		1 X 12" X 72"		6'		JUN 13 2018	DAS 11 9-89	

NIR : R-109516-6

Next Page...



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Salaberry de Valleyfield (Québec) J6S 5L1
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Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

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Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°	CLI0001056
Date	2018/06/04
Delivery date	2018/06/13
Your order N°	40033
Processed by	Eric Kaehlt
Salesman	
Carrier	OUELLETTE VALLEYFIELD
Credit Terme	Net 30 Days
Page	7

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
AC-16978-FL-2018-06-11 Heat : 295845 12 FLAT CR 1 1/4 X 2 1/4 1018 NS FCR-114214 9828 1 X 12' R/L ** CERTIFICATE ** LINE# 11 AC-16979-SAT-2018-06-06 Heat : 1-2027	114.76	12.00	PL \$CLB							

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (lbs) : 1 157.39

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Y M D

Customer's Signature

Date

Total (\$CAD)

JUN 13 2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040033

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040033

PO Date: 5/29/18

Due Date: 6/4/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
MAY 29 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-R0.750		17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	6/6/18	36 ft	0 ft	36 ft	\$10.963888/ft	\$394.70
							36'			DAS 11 9-89 JUN 13 2018
2	M304R.500		304 SS roundbar .500 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/1/18	120 ft	0 ft	120 ft	\$2.3345/ft	\$280.14
							127.8			DAS 11 9-89 JUN 13 2018
3	M6061T6S1.250X6.000		6061T6 PLATE 1.250 X 6.000 : MATERIAL: 6061- T6/T62/T651 ALUMINUM SHEET AS PER QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft	Firmed	6/4/18	12 ft	0 ft	12 ft	\$35.68167/ft	\$428.18
							12'			DAS 11 9-89 JUN 13 2018

Line Item Note saw cut pricing included in pricing of mat'l

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B0.250X04.000		M2024T3B0.250X4.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/4/18	20 ft	0 ft	20 ft	\$4.28/ft	\$85.60
							20'		DAS 11 9-89 JUN 13 2018	
5	M6061T6B0.625X03.000		6061T6 Bar 0.625 X 3.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/4/18	12 ft	0 ft	12 ft	\$11.87333/ft	\$142.48
							12'		DAS 11 9-89 JUN 13 2018	
6	M6061T6B0.750X00.750		6061-T6 Bar .750 X .750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/4/18	20 ft	0 ft	20 ft	\$2.4095/ft	\$48.19
							20'		DAS 11 9-89 JUN 13 2018	
7	M6061T6S1.750X10.000		6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft	Firmed	6/4/18	6 ft	0 ft	6 ft	\$94.821666/ft	\$568.93
							6'		DAS 11 9-89 JUN 13 2018	
8	M6061T6B4.500X4.500		6061-T6 Aluminumbar 4.500" X 4.500" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/4/18	4 ft	0 ft	4 ft	\$128.0225/ft	\$512.09
							4'		DAS 11 9-89 JUN 13 2018	
9	M304B0.375X03.000		M304 SS bar .375 x 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/4/18	12 ft	0 ft	12 ft	\$13.02/ft	\$156.24
							12'		DAS 11 9-89 JUN 13 2018	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	M304B1.000X1.000		304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/4/18	12 ft	0 ft	12 ft	\$18.9025/ft	\$226.83
							12'		JUN 13 2018	DAS 11 9-89
11	M1018B1.250X02.250		1010-1025 Steel Bar 1.250 X 2.250 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/4/18	12 ft	0 ft	12 ft	\$15.87/ft	\$190.44
							12'		JUN 13 2018	DAS 11 9-89
12	MT-4140-S- 1.750X12.000		AISI 4140 Steel Sheet/Plate	Firmed	6/11/18	6 ft	0 ft	6 ft	\$225.095/ft	\$1,350.57
							6'		JUN 13 2018	DAS 11 9-89
Grand Total:										\$4,384.39

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/29/18 11:09 AM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
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Quotation**SOU0109163****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/05/25

Revision N°

0

Prices valid until

2018/06/01

Your Order N°**Processed by**

Eric Kaehlert

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND SS 3/4 17-4PH NS RSS-34174 9268 3 X 12' R/L 4-5 DAYS	54.07	36.00	PI_\$CLB	36.00	PI	10.96			394.70
ROUND SS 1/2 304 (R) RSS-12 5730 10 X 12' R/L STOCK	80.04	120.00	PI_\$CLB	120.00	PI	2.33			280.14
ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453 SAW CUT SCIE 1 2 PCS 6" X 72" 3-4 DAYS	107.76	6.00	PI2_\$CLB	6.00	PI2	63.03			378.18
FLAT ALU 1/4 X 4 6061-T6 * FAL-144 2525 1 X 20' STOCK	23.52	20.00	PI_\$CLB	20.00	PI	4.28			85.60
FLAT ALU 5/8 X 3 6061-T6 * FAL-583 2633 1 X 12' 2-3 DAYS	26.44	12.00	PI_\$CLB	12.00	PI	11.87			142.48
SQUARE ALU 3/4 6061-T6 * CAL-34 1787 1 X 20' STOCK	13.24	20.00	PI_\$CLB	20.00	PI	2.41			48.19
ALU PLATE 1 3/4 6061-T651 RANDOM PAL-1346061-V 7458 SAW CUT SCIE 1 1 x 10" x 72" 3-4 DAYS	125.35	5.00	PI2_\$CLB	5.00	PI2	106.79			533.93
ALU PLATE 4 1/2 6061-T651 RANDOM PAL-4126061-V 7485 1 PC 4-1/2" X 48" 2-3 DAYS	96.63	1.50	PI2_\$CLB	1.50	PI2	341.39			512.09

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0109163****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/05/25

Revision N°

0

Prices valid until**2018/06/01****Your Order N°****Processed by**

Eric Kaehlert

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT SS 3/8 X 3 SS304 (R) FSS-383 3578 1 X 12' R/L STOCK	45.96	12.00	PI_\$CLB	12.00	PI	13.02			156.24
SQUARE SS 1 SS304 (R) CSS-1 2085 1 X 12' R/L STOCK	40.80	12.00	PI_\$CLB	12.00	PI	18.90			226.83
ROUND HR 4 1/2 * RHR-412 4884 1 X 4' 2-3 DAYS	216.32	4.00	PI_\$CLB	4.00	PI	89.75			358.98
PLATE 4140 HEAT TREAT 1 3/4 NS P4140-134H 8507 1 X 12" X 72" 7-8 DAYS	428.82	6.00	PI2_\$CLB	6.00	QUN_\$UN	225.09			1 350.57
FLAT CR 1 1/4 X 2 1/4 1018 NS FCR-114214 9828 1 X 12' R/L 2-3 DAYS	114.76	12.00	PI_\$CLB	12.00	PI	15.87			190.44
FUEL CHARGE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs) 1 373.71**Important**

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices.

This offer is subject to credit approval.

Approved and Accepted by :

Date :

Sub-total

4 747.32

TVH-13 · · 617.15

Total (\$CAD)**5 364.47**

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-S-1.750X12000 PO / BATCH NO.: 040033/S080905
 DATE: JUN 13 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750
 THICKNESS RECEIVED: 1.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>A568 A829</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # 295845</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAE 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-8 JUN 13 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: *xy* ASTM A829, AMS 6395

PART NUMBER: MT-4140-S-(T.TTTT) x (W.WWWW)
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500



TITLE
AISI 4140 / 4142 STEEL SHEET OR PLATE

PART NO
MT-4140-S

REV
A

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
DIMENSIONS APPLY AFTER FINISHING

DESIGNED BY: VM 2/13/2018
DRAWN BY: VM 02/13/2018
CHECKED BY: VM 02/13/2018
MFG REVIEW BY: DD 02/13/2018
APPROVED BY: ML 02/13/2018

SCALE: NTS
SHEET 1 OF 1

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B1.250X02.250
DATE: JUN 13 2018

PO / BATCH NO.: 040033/50809041

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 121
QUANTITY INSPECTED: 121
QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
THICKNESS RECEIVED: 1.250
SHEET SIZE ORDERED: N/A
SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	<u>As per 1018</u>
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	<u>Heat # 1-2027</u>
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 JUN 13 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO M1010-B	REV A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL:

AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W / 44W / 50W / 60W / 70W

PART NUMBER:

M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK | WIDTH | WW.WWW = WIDTH (IN INCHES)

EG. 0.75" x 2.50" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304BL 000x1.000
 DATE: JUN 13 2018

PO / BATCH NO.: 040033/808903

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	<u>Astm A276</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	<u>Heat # 56171822</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER: M304B TTTT X|WWW|WWW|
[THICK] [WIDTH]

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.: CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE".	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZIN D8-1).	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B		REV. C	
TITLE 304/316 BAR/PLATE		SHEET 1 OF 1	
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B0.375X03.000

PO / BATCH NO.: 040033/508802

DATE: JUN 13 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Astm A276</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # 397 J</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE-AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER: M304B TTT X WWW.WWWW
THICK WIDTH

WHERE "T, TTT" = THICKNESS IN INCHES
AND "WW, WWW" = WIDTH IN INCHES

△ EG. 0.5" X 3.0" BAR = M304B0.500X03.000
△ EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.: CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (2N D8-1).	CP	09.07.15
A	NEW ISSUE	PH	05.08.10
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B		REV. C	
TITLE		SHEET 1 OF 1	
304/316 BAR/PLATE		SCALE	
		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6 B4.500X4.500

PO / BATCH NO.: 040033/5080901

DATE: JUN 13 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.500
 THICKNESS RECEIVED: 4.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>Astm B 221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>Heat # 001J180303C - 001J180303K</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____	
DATE: <u>9-89 JUN 13 2018</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N 07-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	GP		
CHECKED	ADS		
MFG APPR	M6061T6B		
APPROVED	MD		
DE APPR	MD		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO.		SHEET 1 OF 1	
TITLE		SCALE	
6061-T6 BAR		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H651.75x10.000
 DATE: JUN 13 2018

PO / BATCH NO.: 040033/5080900

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750
 THICKNESS RECEIVED: 1.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	<u>Astm B209</u>
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	<u>Heat # TRCK</u>
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-8 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W.WWW |
THK | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B208 SPEC (ZN D8-1).	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		

APPROVED

RELEASED
2018 MAR 13
EJS 18-655

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6S

TITLE 6061-T6 SHEET/PLATE SPEC

REV. C

SHEET 1 OF 1

SCALE NTS

DATE 17.12.13

COMP. BY JFS
CHECKED BY NO
DESIGNED BY DS
DRAWN BY ML
MFG. APPR. JFS
DE APPR. CP
DATE 17.12.13

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T680.750X0.750

PO / BATCH NO.: 040033/5080899

DATE: JUN 13 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 201
 QUANTITY INSPECTED: 201
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.730
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	45m B221
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	Heat # 68402
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89</u> <u>JUN 13 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12 000

RELEASED
R 2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION. REFORMAT NOTES. ADD ASTM B211/B221 (2N 07-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B		REV. B	
TITLE 6061-T6 BAR		SHEET 1 OF 1	
SCALE NTS		SCALE	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 7606 H6BO.625X03.000

PO / BATCH NO.: 040033/508898

DATE: JUN 13 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625
 THICKNESS RECEIVED: 0.625
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	As per B221
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	Heat #0015180501D
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-08-03
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2ND-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	W		
CHECKED	AJS		
MFG APPR.	MFG		
DE APPR.	DE		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B		REV. B	
TITLE 6061-T6 BAR		SHEET 1 OF 1	
SCALE NTS		DATE	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061t6Bo.250x04.000 PO / BATCH NO.: 040033/5080897
 DATE: JUN 13 2018

MATERIAL CERT REC'D: ✓
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	<u>Astm B221</u>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	<u>Heat # 5xP172102</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B21

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-03-03
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B211 (Zn D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	g		
CHECKED	AJS		
MFG APPR.			
APPROVED	MAD		
DE APPR			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B SHEET 1 OF 1			
SCALE NTS			
TITLE 6061-T6 BAR			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60617651.250x6.000
 DATE: JUN 13 2018

PO / BATCH NO.: 040033/5080896
5080940

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12' (3x6')
 QUANTITY INSPECTED: 12' (3x6')
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u>	N	<u>As per B209</u>
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	<u>Heat # 537116567</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____	
DATE: <u>9-8 JUN 13 2018</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION:

QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4026 OR 4027
OR ASTM B209

△ PART NUMBER:

M6061T6S | XXX | X | W | WWW |
THK | WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W | WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE:

.XXX BY 4FT BY 8FT FOR SHEET

RELEASED
2018 MAR 13
EJ 18-656

APPROVED

REV.	DESCRIPTION	ML	DATE
C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG, ADD B209 SPEC (2N DB-1), REF PART DB-020A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		

DART AEROSPACE LTD
HAMKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6S
TITLE 6061-T6 SHEET/PLATE SPEC

REV. C
SHEET 1 OF 1
SCALE
NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R.500
DATE: JUN 13 2018

PO / BATCH NO.: 040033/5080895

MATERIAL CERT REC'D: YES
QUANTITY RECEIVED: 128'
QUANTITY INSPECTED: 128'
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
THICKNESS RECEIVED: 0.500
SHEET SIZE ORDERED: N/A
SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	<u>Astm A276</u>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	<u>Heat # 1712154</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>11 JUN 13 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

B SPECIFICATION: ASTM A276
PART NUMBER: M304R0.750 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
10/10/23/100

B	REFORMAT DWG. ADD SPECS (ZN DB-1), REF PAR 08-020A	CP	08.07.15
A	NEW ISSUE	AJS	08.03.03
REV	DESCRIPTION	BY	DATE
DESIGN	ASS		
DRAWN	GA		
CHECKED			
MFG. APPR.	M304R		
APPROVED			
DE APPR.			
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304R			
TITLE 304/316 ROUND BAR			
REV. B SHEET 1 OF 1			
SCALE NTS			
DATE 09.07.15			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-R0.750
 DATE: JUN 13 2018

PO / BATCH NO.: 040033/5080892

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 36
 QUANTITY INSPECTED: 36
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	Y	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	<u>Am 55646</u>
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	Y	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	<u>Heat # 752410</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5643 OR ASTM A564

PART NUMBER: M17-4-HHHH-R | X.XXX | WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND O.D. X.XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H800 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART 4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

PART NUMBER
M17-4-R2.000
M17-4-H900-R2.500
M17-4-H1025-R3.250
M17-4-CONDA-R0.750

RELEASED
2017-10-31
EWM-718

APPROVED

C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.09.14
B	REFORMAT DWG. S17400/TYPE 630 ADDED TO PURCHASE MATERIAL (ZN D8-1), ADD A564 SPEC (C8-1), REF PAR 08-020A	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	NO	NO	
DRAWN	NO	NO	
CHECKED	CP	CP	
MFG. APPR.	RA	RA	
APPROVED	WM	WM	
DE APPR.	CP	CP	
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-R			
TITLE 17-4 SS ROUND BAR			
SHEET 1 OF 1			
SCALE NTS			
DATE 17.09.14			
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CERTIFICATE OF TESTS
CERT SERIAL# 001083003

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



CARPENTER

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

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03/06/18

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

COPPER & BRASS SALES
22355 W ELEVEN MILE
SOUTHFIELD, MI 48034

CARPENTER TECHNOLOGY CORP

101 W BERN STREET
READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400390299-R02	CHI027503 L11781	03/06/18	2008.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :

752410

UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH

SPECIFICATION: TALLEY 174-T1A CAP OF H900 (01/11/99)
AMS 2303 (REAFFIRMED) REV F (06/ /16)
AMS 2315 (PROD QUALIFICATION) REV G (02/01/13)
AMS 5643 CAP OF H900 REV U (08/ /16)
ASTM-A484-16
ASTM-A564-13 CAP OF H900
ASME-SA564 CAP OF H900 2015 EDITION
ASTM-F899-12B
AS 6279 REV A (05/ /16)
GE S-400 (06/03/16)
GE S-SPEC-1 (05/23/17)
PRATT MCL F-17 SUPP A REV B (01/10/17)
PRATT MCL F-17 REV C (07/01/15)

SIZE 0.750000 IN. (19.05 MM) RD BAR

HEAT CHEMISTRY (WT%) :

(TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.03	0.85	0.39	0.021	0.026	15.25
NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)	CB (XRF)	TA (XRF)
4.24	0.11	3.69	0.029	0.25	LT .02
CB+TA					
0.27					

GEAG SUPPLIER CODE - 21100/CARPENTER

MATERIAL PRODUCED UNDER LCS IN ACCORDANCE WITH P&WA F-17.

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES

CARPENTER TECHNOLOGY HAS COMPLIED WITH ALL PRODUCER REQUIREMENTS OF AS 6279

THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS

OPERATIONS QUALITY PROGRAM MANUAL REVISION 35, DATED 11/07/16.

MILL HEAT TREATMENT:

TYPE SOL ANL
TEMP 1900F (1038C)
TIME (BATCH FURNACE) 30.00 MINUTES
QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HRC - 34 (MIDRADIUS)
MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

CONTINUED ON NEXT PAGE

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CARPENTER

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

03/06/18

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 2

COPPER & BRASS SALES
22355 W ELEVEN MILE
SOUTHFIELD, MI 48034

CARPENTER TECHNOLOGY CORP

101 W BERN STREET
READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
5400390299-R02	CHI027503 L11781	03/06/18	2008.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

MICROSTRUCTURE - FERRITE LESS THAN 5.00% **752410**

UNS NUMBER S17400

CAPABILITY

900 F (482 C), 01 HR

AIR COOL

HARDNESS

, HRC

42

(MIDRADIUS)

(T) RANSVERSE (L) ONGITUDINAL

YIELD STRENGTH, (0.20 %) KSI (MPA)

202.2 (1394)

TENSILE STRENGTH, KSI (MPA)

205.5 (1417)

ELONGATION IN 2.00", %

14.8

REDUCTION OF AREA, %

53.5

MELTED IN USA

MELT SOURCE: CARPENTER

MATERIAL TESTED AT A QUALIFYING CARPENTER LAB

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2013 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 13-1996R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

SHARON S. BRUNSON
QUALITY ASSURANCE REP.
CARPENTER TECHNOLOGY CORPORATION

SSRD01402

Date

Customer

These Tests Are For Material Shipped On

Your Order

From Copper And Brass Sales, Inc.

INV/WO

PCS

WGT

QC

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

#5730



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2005 CERTIFICATE No. 09100011022

ADM. OFFICE: 504, SUKTI SAGAR, N. S. PATKAR MARG, MUMBAI 400 007, INDIA.

Tel.: 91-22-66290600, Fax.: 91-22-66290633/34

Website : www.chandansteel.net

Email : cs1@chandansteel.net

L/c. No.:

L/c. Date:

WORKS PLOT NO. 31 TO 36, 45/46/48, & 49/2, 142

(EXP. AREA) GIDC, UMBERGAON & SURVEY NO. 102/26, 3 VILLAGE,

DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171

GSTIN - 24AAACC6713B12G

F824 QC 09A/02/10.12.2012

MILL TEST /INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

Consignee					Test Certificate No. : EXP/01152 - 09/2017-2018 Date of Issue : 03.01.2018 P. O. No. : MN5942 SC No. & Date : 17-18/00447, Dt. 08.11.2017 Invoice No. & Date : EXP/01152/2017-18 Dt. 03.01.2018						
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS					LENGTH				Net Wt.		
					Ordered		Actual		4680 Lbs.		
					12' - 14'		12' - 14'				
Heat No.	Grade	Size	Tolerance	Process Route							
1712154	AISI 304L	mm/inches 1/2"	h9	Electric Melting, A.O.D. Refining, Continuous Casting							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.028	0.33	1.56	0.038	0.008	18.02	-	8.02	-	-	-
MECHANICAL PROPERTIES											
Specified	Yield Strength		Tensile Strength		Elongation		Reduction of Area		Hardness		
Value	N/mm ² /MPa (Rp0.2)		N/mm ² /MPa (Rm)		%		%		(HB)		
Min.	310		620		30		40		-		
Max.	-		-		-		-		-		
Results	534		737		38		65		229-232		
Remarks:											
1. Cold drawn & Centreless Ground. 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. Material is free from radio-active contamination. 5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory. 6. The material conforms to ASTM A276-15/A182-15/A479-15 & ASME SA479-13 Specifications. 7. Location of sample - Centre, Direction - Longitudinal, Test Temp. - Room Temp., Shape of Test Piece - Round. 8. Marking details - Company Logo, Size, Grade & Heat No. 9. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin. 10. No welding/weld repairs was performed on this material.											
BUNDLE NO.: 32, 33, 35 & 36											



It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

B.S. RAUTELA
MANAGER - QUALITY ASSURANCE



North American Stainless Canada Inc.
740 Imperial Road North
Geoph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Geant, KY 41045-9615
(502) 347-6000

Certificate: 373018 17 Mail To:

Ship To:

Date: 1/19/2018 Page: 1

Customer: 007080 003

Steel: 306/304L

Your Order: MS1116

NAS Order: IN 0257931 05 Heat Treat Code: 44,465

Corrosion: ASTM A262/15 PROC A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/16
ASTM A276/17, ASTM A479/17, ASTM A192/16a CRES ONLY,
ASTM SA479/13, ASTM SA192/13 CRES ONLY
AMS 5639J, AMS 5647K, AMS QCS-763D, QCS-763F, ASTM F899/12b
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B6
ASTM A193/10A-ASTM SA193/10 CL 1 GR B6

REMARKS:

COMPLIES W/REQUIREMENTS OF DRAW 252.225-7009 NO DIRECTIVE
2011/65/EU. ROHS. BAV+MOD+CC. NO WELD REPAIR. WELDED AND NEG
IN USE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Shield #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BJ1646 7		.5000		572	144.00	19	1	

CHEMICAL ANALYSIS

CM(Country of Mfg) ES(Span) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

Chemical Analysis per ASTM A751/14a

UNS Heat	CM	C %	CO %	CR %	CU %	HN %	MO %	N %	NI %	P %
627D	US	.013	.11	18.28	.41	1.36	.311	.075	8.54	.028
		S %	SI %							
		.0285	.23							

MECHANICAL PROPERTIES

Product Id	1 4 0 1 C 3	HB MO.	.2YS KSI	UTS KSI	RA %	ELONG % 2"
BJ1646 7	N L	211.0	82.39	99.38	73.47	45.05

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/19/2018

93012

2224

MILL TEST CERTIFICATE	No: 1728	CERTIFIED BRAC-IQNet	vimetco alro SLATINA
	Date: 1/23/2018	ISO 9001:2015 No.10/valid 2020	

CUSTOMER :

CONTRACT/ORDER : 2224
 BILL OF DELIVERY : 80348517
 TRUCK/CONTAINER : MSCU 5764780

MATERIAL : ALUMINIUM PLATES
 ALLOY : 6061
 LOT/DIMENSIONS (mm): 70190093

1.25"THX48.5"WDX144.5"LT

TEMPER: T651

ACCORDING TO : ASTM B209; AMS 4027N; ANSI H35.2; ASME SB209; AMS-QQ-A-250/11

ACTUAL MECHANICAL PROPERTIES 1 MPa = 1 N/mm² = 0.145 ksi = 0.102 kgf/mm²

1 lbs = 0.4536 kg			UTS		YTS	Elong.%
			KSI		KSI	50mm
			min.	max.	min.	max.
Specified values:			42		35	8
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:			
70190093 S37116567	590199;591435; 591437;592325	8,783.224	46.9		40.4	14.5
			46.2		39.4	14.5

ACTUAL CHEMICAL ANALYSIS %

BATCH	SI	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S37116567	0.61	0.39	0.28	0.1	0.99	0.18	0.008	0.12	0.021	0.011	0.018	REM.
												REM
												REM
Acc. Standard	Min.	0.4	0.15	0.8	0.04	0.05	0.25	0.15	0.05	0.05		REM.
	Max.	0.8	0.7	0.4	1.2	0.36	0.05	0.25	0.15	0.05	0.05	
Remarks:						Other-Each- Max.: 0.05			OthersTotal- Max.: 0.15			

REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2013; ASME SB209:2015; AMS-QQ-A-250/11:1997
 We hereby certify that the material detailed herein has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperatures variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminium Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1807/2008 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.

Marius Olteanu, Eng.
 SC ALRO SA SLATINA
 Punct de lucru Slatina
 Str. Milcov Nr.1, Jud. Olt
 Serv. Inspectia Calitatii

ALRO S.A. No.116, Pitești Street Phone: +(40) 0249 435 117; 0249 432 955 alro@alro.ro
 230048-Slatina-ROMANIA Fax: (40) 0249 411 487; 0249 415 892 www.alro.ro

cod 11/PO-051/Rev.4/2012

ACIER OUELLETTE INC.

22, boul. J.F. Kennedy
 Saint-Jérôme, Qué. J7Y 4B6

PO : 40033
 B/L : 93012
 Date de livraison : 07/06/2018
 Heat #: 70190093

Josée Brissette

PAC 11415

2525

FAL-144-V

CA-4793

49839



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: December 20, 2017

PO number: P-17603

Shipping Ref No.: 17-2472

LC No.: DC HMN714904

Date of issue: December 04, 2017

Item Code: 1070600

Die Number: D00203

Alloy & Temper: 6061-T6

Production Description: Flat Bar .25"x4"x 240" 6061-T6 D00203

Length (inch): 240

Bundle number: P-17603-027

Heat Number: SXF172102

Date: 10/11/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.651	0.978	0.229	0.139	0.021	0.068	0.011	0.019	97.683	<0.05	<0.10	08/11/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.7	36.9	12.5	08/11/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TINH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

93012

Don't

16977N



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**

OUR ORDER NUMBER	ITEM
950620	3

BILL TO MANIFEST NUMBER 368013
SHIP TO CUSTOMER PO 5400400637
CUSTOMER PART NUMBER ALREC00696
DATE OF SHIPMENT 5/23/2018
SALES PERSON D. Schroeder (Canada)
CERTIFICATION ASTM-B221-14 StencilCont
SPECIFICATION RoHS 2011/05/EU Compliant

Quantity Certified 1,111 lbs 42 pcs

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified This product is RoHS-2, REACH, and DPAAS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201808829	5/15/18	min 49.60 max 49.60	min 45.00 max 45.00	min 19.10 max 19.10

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
001J180501D	201808829	6061	0.72	0.41	0.28	0.09	0.88	0.09	0.05	0.03	97.45	Each Total	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 5/23/2018

Rev 3/14/2018

1784

CHL 34-V

7KA-2108

49677

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande : **7011453**

bon de commande / Purchase order # : **OU-47404**

de matrice / Die # : **MS 17042**

Description : **SQUARE BAR 3/4"**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

Contrôle / Control # : **84111-1**

Coulée / Cast # : **68402**

Dureté Rockwell E /
Rockwell E hardness : **93 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66 - 0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	—	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-02-17**

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

CHL 34

1/30 THICK X 48.5000" X 144.5000"
PART NO.

PO/Ref: 05-51293

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
producteur du matériel ou les données résultant de

l'analyse faite par un laboratoire qualifié.

BLVAM-350391-001

201011
Pg 1/1

Certificate of Mill Test Results

TEST CERTIFICATE

Certificate No : 1104LB8948

Hulamin United Reg. No. 1940013924/06 VNT Reg. No. 4080
HEAD OFFICE: Monts Metibou Rd, Metemurichband 3201, P.O. Box 74 Metemurichband 3200, South
Telephone: +27 33 355 6971 - Telefax: +27 33 33



RIVERD	Shipping File No:	UR42529	Product:	PLATE 6061P-T651 1.75" X 48.5" X 144.5"
	Lot No:	0504073A1	Dimension:	1.75" X 48.5" X 144.5"
	PILIST No:	2961265	Alloy - Temper:	6061 - T651
	Release No:	REC00629	Certificate No:	1104LB8948
	Client Order No:	PEC-228260	Client Ref/Part No:	
HULAMIN Order No: 034311E		Combined PILIST No: R97923		
Item Part:		1/1		

Case No: PEC515

MECHANICAL TEST RESULTS

Lot No.	Cast No.	Metal Id	Alloy	Spec No	Mechanical Properties						
					Yield Strength (ksi)	UTS (ksi)	Elongation A50 (%)	Flaring (%)	Test Date	Gauge Length (inches)	Bend Test
Spec				Min	34.8	42.0	8				B/L
				Max	44.5	46.7	12				Date
0504073A1	TKCK	89212092	6061	1	44.5	48.7	12			06/04/11	02
				2						06/04/11	02

Josée Brissette

ACIER OUELLETTE INC.

22, boul. J.F. Kennedy
Saint-Jérôme, Qué. J7Y 4B6

CHEMICAL COMPOSITION

Cast No.	Alloy	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Cr (%)	Zn (%)	Ti (%)	Each (%)	Total (%)	Al (%)
Min		0.40	0.7	0.15	0.15	6.8	0.04	0.25	0.15	0.35	0.15	
Max		0.8	0.39	0.40	0.15	1.2	0.35	0.25	0.15	0.35	0.15	
TKCK	6061	0.86	0.39	0.26	0.11	1.00	0.17	0.01	0.008			97.36

CONFORMS TO: ASME SA-208 ASTM B209/07 AMS 4027N AMS-QQA-35071, 08.1997

For purposes of determining conformance with these specifications, an observed value or a calculated value shall be rounded to the nearest unit in the last right-hand digit used in expressing the specification limit, in accordance with the rounding method of ASTM Practice E29, for Using Significant Digits in Test Data to Determine Conformance with Specifications.

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIES WITH THE TERMS OF THE ORDER CONTRACT. THE INSPECTION RESULTS INDICATED IN THE CHEMICAL COMPOSITION HAVE BEEN OBTAINED FROM CAST ANALYSIS.

D. A. K. (HEAD OF CHEMICAL TESTING)

Ver 2.3.4

V. M. (HEAD OF PHYSICAL TESTING)

Printed Date: 12 May 2011

Material, used, rolled and, processed in South Africa - month: February 2011

1 of 1

03012

Don't

16977N



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**



OUR ORDER NUMBER	ITEM
947203	1

BILL TO

MANIFEST NUMBER

CUSTOMER PO

CUSTOMER PART NUMBER

Quantity Certified

4,608 lbs

16 pcs

ALSO00058

DESCRIPTION

MSQ 4.500 +.034/-0

DIE NUMBER

MSQ0722

DATE OF SHIPMENT

4/4/2018

SALESPERSON

D. Schroeder (Canada)

CERTIFICATION

ASTM-B221-14 StencilCont

SPECIFICATION

AMS-QQA-200/8 Rev-A obsolete

SPECIFICATION

RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DfARS compliant.

Mechanical Properties

Tests Lot No.

1 201804026

Test Date

3/8/18

Ultimate Tensile Strength (KSI)

min 49.20
max 49.20

Yield Strength (KSI)

min 45.70
max 45.70

Percent Elongation

min 18.80
max 18.80

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
												Each	Total
201J130303C	201804026	6061	0.75	0.38	0.31	0.09	0.89	0.10	0.06	0.03	97.39	0.05	0.15
201J180303K	201804026	6061	0.75	0.38	0.33	0.09	0.90	0.10	0.06	0.03	97.37	0.05	0.15
												United States of America	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 4/4/2018

Rev 3/14/2018

3578

FSS-383-V
PHOENIX TUBE COMPANY, INC.

Manufacturer of Stainless Ornamental and Structural Tubing

CERTIFICATION OF TEST

PO. 12055
49379

Sold To:

Ship To:

CUSTOMER ORDER#: 4500840983

CUST REF NBR: 161002417

DATE SHIPPED: 10/09/17

SIZE: 3" X 3/8" HRAP

SOURCE: USA

VENDOR: NAS

ORDER#: 434128

QTY SHIPPED: 565.0

GRADE: 304L

NO WELD: BAR

HEAT#: 397J

TEST REPORT#: TR014223

Report Date: 05/17/17

Specification:

CHEMISTRY THIS COLUMN:

ASTMA276-17

ASME SA276 COND. A

ASTMA479-17

ASME SA479

ASTMA240-16a

ASME SA240

RoHS Compliant

ASTMA262-15, PRACT/ E

CORROSION OK, HRAP

ASTMA484-16

ASME SA484

ASTMA480-16b

ASME SA 480-16

NO WELD REPAIR

EN 10204 2.2

MILS 5059D AMEND 3

AMS5511H/AMS5513J

NACE MR0175/MR0103

AMS 5639J / AMS 5647K

QTY SHIPPED EQUALS LBS.

TYPE 304/304L DUAL CERTIFIED

UNS# 30400 / 30403

ASTM A866-15

AMS-QQ-S-763D COND A

CHEMISTRY ONLY

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICINITY OF OUR PROCESSING LINES. MATERIAL IS FREE OF MERCURY CONTAMINATION.
MATERIAL HAS BEEN HEATED TO A MINIMUM OF 1900 DEG. F AND IS SUBSEQUENTLY COOLED RAPIDLY TO PREVENT CARBIDE PRECIPITATION, SOLUTION ANNEALED

Chemical Analysis

C	MN	P	S	SI	CR	NI	MO	CU	CO	N2	TI
.018	1.81	.031	.002	.33	18.06	8.02	.33	.40	NA	.07	NA

Physical Analysis

	YIELD		TENSILE		OTHER	
Hardness	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 89	51950	NA	89590	NA	53	69

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS.
MECHANICAL PROPERTIES ARE MEASURED FROM SHEET COIL AND PLATE BEFORE CUTTING

Melted & MFG in USA DFARS 252.225 Subsection Compliant, FAR BAA, DFAR BAA, FAR TAA Complies

CERTIFIED BY Inventory Control Dept.

1185 WIN DR, BETHLEHEM, PA., 18017 - (610) 865-5337

FAX NUMBER: 610-865-4073

2085

BOLLINGHAUS
STEEL

Bollinghaus Steel, SA
DIN EN ISO 9001:2008
TÜV CERT No. 01 100 030458

Attestation / Attestation / Attestation / Attestation

EN 10204:2004 / 3.1

CS5-1

NO. / NO. / NO.

0000139304

Unsere innere Verweisung / Our int. Ref / N° ref int

5600039444 000080

Datum / Date / Data

26.02.2018

Spezifikation / Standards / Normas

TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A276/A276M-16a, ASTM A182/A182M-16a, ASTM A193/A193M-16, ASTM A479/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-763D, AMS 5639J, AMS 5647K, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.

Kunde / Customer / Cliente

Endgültiger Kunde / Final Customer / Cliente Final

Bestell Nr./Order Nr./ Enc.Nr. C112257

Bestell Nr./ Order Nr./ Enc.Nr. C112257.8

Produktgruppe / Product Group / Grupo Produto

Gewicht / Weight / Peso

Bunde / Bundle / Atados

AISI 304/L CD SQ 1"

1.050 lb

01

Werkstoff-Nr.

Material-no.

Qualidade

1.4307

Werkstoff-Normbezeichnung / Material standard grade / Norma do material

X 2 CrNi 18-9

Beschreibung / Description / Descrição

Stainless steel cold drawn square bars,
US DFAR 252.225-7009: MELT SOURCE: United Kingdom / MFG: Portugal.

Schmelzen Nr.
Cast nr./Fusão nr.

Chemische Analyse in % / Chemical composition in % / Análise química em %

56171822

C

0.015

Si

0.370

Mn

1.710

P

0.031

S

0.024

Cr

18.280

Ni

8.080

EEF+AOD

Mo

0.320

Co

0.126

Cu

0.470

N

0.070

Ti

0.003

Al

0.006

-

-

Proben Nr.
Test no.
Amostra no.

ASTM E399

Kerbschlagarbeit
Impact Test
Resiliência

{Charpy V}

[J]

Streckgrenze
Yield point
Tensão limite

Rp 0,2 %

[Ksi]

Dehngrenze
1% point
Limite de extensão

Rp 1,0%

[Ksi]

ASTM A370

Zugfestigkeit
Tensile strength
Tensão de rotura

Rm

[Ksi]

Dehnung
Elongation
Alongamento

A5

4D

Einschnürung
Reduction of area
Coef. Estricção

Z

[%]

3067183.01.01

84

90

104

42.8

44.9

68.0

Visuelle Kontrolle
Visual inspection
Inspeção visual

☒ Ok

ASTM E10

Härte
Hardness
Dureza

223
[HB]

ASTM A262 Practice E

Korrosionsbeständigkeit
IC Test
Corrosão intercrisalina

☒ Ok

Wärmebehandlung
Heat treatment
Tratamento térmico

Annealed Quenched 1900 °F (1050 °C)

(water quenched)

ASTM A484

Maßkontrolle
Dimensional inspection
Inspeção dimensional

☒ Ok

ASTM E112

Korngröße
Grain size
Tamanho de grão

Abnahmebeauftragter
Authorized inspection Representative
Inspector da Qualidade

[Signature]

Vasco Ferreira (Ω - VF)

Verwechslungsprüfung
Test of identity
Teste de identificação

☒ Ok

Makroskopische Untersuchung
Macrographic test

Material free from
segregation defects.

☒ Ok

Bemerkungen / Remarks / Observações

Country of origin: Portugal. No weld repair done.
Material is free of mercury and radiation contamination.

Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.

We confirm that this material meets the specification according to the mentioned standards.

Confirmamos que este material respeita as especificações de acordo com as normas referidas.

PO
15616
50822

270116

16978N

Dart

Chemical certification Certification chimique
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Order Num / No. Commande AC-16978	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA-EU	Date 05/02/16	Heat / coulée 295845	Material ID # / No. matière
Grade / Nuance 4140 PLT	Conditions QUENCHED AND TEMPERED, SAW CUT				
Shape / Forme PLT	Size / Dimension 1.750	Specifications ASTM A829/A826M			

Chemical composition / Analyse chimique

Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190
Actuel % 0.421	0.261	0.753	0.011
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500
Actuel % 0.001	0.980	0.170	0.160
Copper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.197	0.037	0.024	0.000
Cobalt (Co)	Titanium (Ti)		
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.000	0.000	0.000

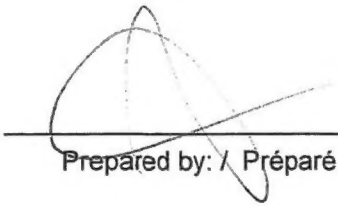
Mechanical properties / Propriétés Mécaniques

Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
0.000 PSI	0.000 PSI	0.00	0.00		285 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.


 Prepared by: / Préparé par:

Customer Name

Customer PO#

Invoice No

Shipper No

Heat Number

ACIER OUELLETTE INC. DIV SALABEI

AC16979

100936

94452

1-2027

BRIGHTSTEELS

LIMITED

MANUFACTURERS OF BRIGHT STEEL BARS

NORTON WORKS · MALTON · NORTH YORKSHIRE · ENGLAND · YO17 9BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695856

E: export@bright-steels.com

Certificate Of Analysis

Date : 07/02/2018

Number : 114375

VAT Registration No. 166 8255 35

Invoice To:

Deliver To:

UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER. CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	WEIGHT	UOM	QUANTITY
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BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018
IN 11'6"-12'6" LENGTHS
TARIFF NO. 7215.50.11

1*	1.1/4" X 2.1/4"	1-2027	PRD-12750701	2216	LBS	1005 KGS
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CAST 1-2027	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %
	0.170	0.210	0.760	0.009	0.034	0.150	0.030	0.130	0.200	0.023	0.002
	V %	N %									
	0.020	0.0109									

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018
IN 11'6"-12'6" LENGTHS
TARIFF NO. 7215.50.11

2*	1/4" X 4"	1-2576	PRD-12751201	2066	LBS	937 KGS
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CAST 1-2576	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %
	0.160	0.220	0.750	0.010	0.031	0.090	0.020	0.110	0.200	0.012	0.002
	V %	N %									
	0.005	0.0105									

3*	2.1/2" X 3.1/2"	1-3363	PRD-12750801	2161	LBS	980 KGS
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Signed :

Registered In England No 159061

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